

METHOD FOR ASSAYING COMPOUNDS AFFECTING CELL DIVISION USING ESTROGEN RECEPTOR BETA (ERβ) AND MITOSIS ARREST DEFICIENT 2 (MAD2)

Michael E. Mendelsohn Filing Date: July 13, 1999

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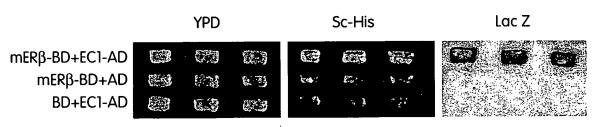


Fig. 1A

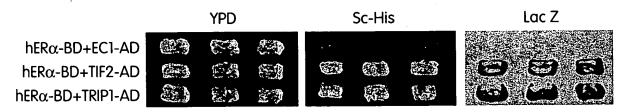


Fig. 1B



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1:-----CGGGAGCAAGGCATCACCTTGCGCGGGAGCCCGAGATCGTG 42 EC1.txt 1:ATGGCGCTGCAGCTCTCCCGGGAGCAGGGAATCACCCTGCGCGGGAGCGCCGAAATCGTG 60 mad2.txt ******** ** ***** ********** 43:GCCGAGTTCTTCTCATTTGGTATCAACAGTATTTTATATCAGCGTGGCATATATCCATCG 102 EC1.txt 61: GCCGAGTTCTTCTCATTCGGCATCAACAGCATTTTATATCAGCGTGGCATATATCCATCT 120 mad2.txt *************** EC1.txt mad2.txt ************ 163:CTCATAAAATACCTAAATAATGTGGTGGATCAACTAAAAGAATGGTTATACAAGTGTTCA 222 EC1.txt 181:CTCATAAAATACCTAAATAATGTGGTGGAACAACTGAAAGATTGGTTATACAAGTGTTCA 240 mad2.txt ****** **************** **** **** **** 223:GTTCAGAAACTGGTGGTAGTCATCTCAAATATTGAAAGTGGAGAGGTCCTTGAAAGATGG 282 EC1.txt 241:GTTCAGAAACTGGTTGTAGTTATCTCAAATATTGAAAGTGGTGAGGTCCTGGAAAGATGG 300 mad2.txt ******* **** *** **** **** 283: CAGTTTGATATTGAGTGTGACAAGACTGCAAAAGATGACAGTGCACCCAGAGAAAAAGTCT 342 EC1.txt 301: CAGTTTGATATTGAGTGTGACAAGACTGCAAAAGATGACAGTGCACCCAGAGAAAAAGTCT 360 mad2.txt EC1.txt mad2.txt ********** 403:TTTCTGCCACTGTTGGAAGTTTCTTGTTCATTTGATCTCCTCATTTATACAGACAAAGAT 462 EC1.txt 421:TTTCTGCCACTGTTGGAAGTTTCTTGTTCATTTGATCTGCTGATTTATACAGACAAAGAT 480 mad2.txt ****** ** *** 463:CTGGTTGTNCCTGAGAAATGGGAAGA-TCNGGACCACAGTTCATTACCAATTCTGAAGAA 521 EC1.txt 481:TTGGTTGTACCTGAAAAATGGGAAGAGTCGGGACCACAGTTTATTACCAATTCTGAGGAA 540 mad2.txt ***** *** **** ***** 522:GTTCGTCTTCGTTCACTACTACTACTACAATTCACAAAGTAAATAGCATGGTAGCCTACAAA 581 EC1.txt 541:GTGCGCCTTCGTTCATTTACTACTACAATCCACAAAGTAAATAGCATGGTGGCCTACAAA 600 mad2.txt ** ** ******** ****** ****** 599 EC1.txt 582: ATTCCTGTCCATGACTGA 618 mad2.txt 601:ATTCCTGTCAATGACTGA



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EC-1:	1	REQGITLPGSAEIVAEFFSFGINSILYQRGIYPSETFTRVQKYGLTLLVTTDPELIKYLN	60
		REQGITL GSAEIVAEFFSFGINSILYQRGIYPSETFTRVQKYGLTLLVTTD ELIKYLN	
hsMAD2:	7	REQGITLRGSAEIVAEFFSFGINSILYQRGIYPSETFTRVQKYGLTLLVTTDLELIKYLN	66
EC-1:	61	NVVDQLKEWLYKCSVQKLVVVISNIESGEVLERWQFDIECDKTAKDDSAPRQKSQKAIQD	120
		NVV+QLK+WLYKCSVQKLVVVISNIESGEVLERWQFDIECDKTAKDDSAPR+KSQKAIQD	
hsMAD2:	67	${\tt NVVEQLKDWLYKCSVQKLVVVISNIESGEVLERWQFDIECDKTAKDDSAPREKSQKAIQD}$	126
EC-1:	121	EIRSVIRHITATVTFLPLLEVSCSFDLLIYTDKDLVVPEKWEXSGPQFITNSEELRLRSF	180
		EIRSVIR ITATVTFLPLLEVSCSFDLLIYTDKDLVVPEKWE SGPQFITNSEE+RLRSF	
hsMAD2:	127	EIRSVIRQITATVTFLPLLEVSCSFDLLIYTDKDLVVPEKWEESGPQFITNSEEVRLRSF	186
EC-1:	181	TTTIHKVNSMVAYKIPVHD 199	
		TTTIHKVNSMVAYKIPV+D	
hsMAD2:	187	TTTIHKVNSMVAYKIPVND 205	

Fig. 2B

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01/2						
JAN 0 5 2005						
Diomor State		Во	amHI Sm	al		
mERβ 1-1458	A/B	С	516-622	D	 E	F
		٠	310-022			
mERβ 1-622						
mERβ 516-1458					 	
mERβ [-516						
mERβ						

Fig. 3A

BD	AD	HIS	$\beta extsf{-}Gal$
	,		
EC1	/-	-	
EC1	/AD	-	-
EC1	$/\mathtt{mER}\beta$ 516-1458	+	+
EC1	/mER eta	+	+
BD	$/\mathtt{mER}\beta516-1458$	-	-
$\mathtt{mER}\alpha$	$/\mathtt{mER}\beta$ 516-1458	+	+
mERβ1-622	/EC1	+	+
$mER\beta1-516$	/EC1	-	-
mERβ1 516-641	/EC1		
mERβ1-622	/AD	-	-
mERβ1-516	/AD	-	-
$mER\beta$	/EC1	+	+
BD	/EC1	-	-

Fig. 3B



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